

Effective September 18, 1942

LIBRARY
STATE PLANT BOARD

TITLE 7--AGRICULTURE
CHAPTER III--BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE
PART 301--DOMESTIC QUARANTINE NOTICES

JAPANESE BEETLE ADMINISTRATIVE INSTRUCTIONS MODIFIED

Introductory Note

Two new schedules for methyl bromide fumigation of potted or bare-rooted plants are provided in this revision of supplement No. 1. These two treating schedules, at lower temperatures than have heretofore been authorized, are Nos. 8 and 9 in the table under subparagraph (i). The instructions as to fumigation of packaged plants are carried forward in this revision of the supplement.

§ 301.48b Administrative instructions to inspectors on the treatment of nursery products, fruits, vegetables, and soil, for the Japanese beetle. Treatment authorized. Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by § 301.48-6, Chapter III, Title 7, Code of Federal Regulations [regulation 6 of the rules and regulations supplemental to Notice of Quarantine No. 48], subsection (1) (5) of § 301.48b [on page 13 of the mimeographed edition of circular B. E. P. Q. 499, issued June 9, 1939] is hereby further modified effective September 18, 1942, to read as follows:

TREATMENT OF SOIL ABOUT THE ROOTS OF PLANTS

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| (1) | Treatment of Plants After Digging | | |
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| (5) | <u>Methyl bromide fumigation</u> | | |

Equipment.--An approved fumigation chamber equipped with vaporizing, air-circulating, and ventilating systems must be provided.

Application.--After the chamber is loaded, the methyl bromide must be vaporized within it. The air within the chamber must be kept in circulation during the period of fumigation. At the completion of the treatment, the chamber must be well ventilated before it is entered and the plants removed. The ventilating system should also be in continuous operation during the entire period of removal of the fumigated articles.

- (i) Fumigation of plants, with or without soil

(a) Temperatures, periods of treatment, and dosages.--The temperature of the soil (with bare root stock, the root spaces) and of the air for each type of treatment must remain throughout the entire period of treatment at the minimum

specified in the following table, or higher:

		Period	Dosage
Temperature at least	of	(methyl bromide per	
	treatment	1,000 cubic feet)	
	Hours		Pounds
1. 73° F-----	2 1/2	:	1 1/2
2. 67° F-----	2 1/2	:	2
3. 63° F-----	2 1/2	:	2 1/2
4. 60° F-----	3	:	2 1/2
5. 57° F-----	3 1/2	:	2 1/2
6. 54° F-----	4	:	2 1/2
7. 50° F-----	4 1/2	:	2 1/2
8. 46° F-----	4	:	3
9. 43° F-----	4 1/2	:	3

The dosage shall be for each 1,000 cubic feet including the space occupied by the load.

(b) Preparation of plants.--The treatment is to be applied to plants with bare roots or in 14-inch pots or smaller, or in soil balls not larger than 14 inches in diameter nor thicker than 14 inches when not spherical. The soil should not be puddled or saturated and must be in a condition which in the judgment of the inspector is suitable for fumigation. The plants should be stacked on racks or separated so that the gas can have access to both top and bottom surfaces of pots or soil balls. While not essential that the balls be completely separated from each other they should not be jammed tightly together.

(c) Packaged plants.--Boxed or wrapped plants in packages not more than 14 inches in diameter may be fumigated at any one of the above nine temperatures, periods of treatment, and schedules. In order that the fumigant may have access to the roots and soil masses about the roots, the wrapping shall not be tightly closed.

(d) Varieties of plants.--The list of plants, including greenhouse, perennial, and nursery-stock types treated experimentally, is subject to continual expansion, and, moreover, is too great to include in these instructions.

The schedule for the fumigation of strawberry plants as specified in subparagraph (5) (ii) of paragraph (1) of § 301.48b [page 14 of the mimeographed edition of circular B. E. P. Q: 499] remains the same as heretofore.

(7 CFR § 301.48; sec. 8, 39 Stat. 1165, 44 Stat. 250; 7 U.S.C. 161)

This supplement supersedes Supplement No. 1, revised, effective April 23, 1942.

Done at Washington, D. C., this 16th day of September 1942.

P. N. ANNAND,
Chief